App No.: Not Yet Assigned Inventor: Bunpei Toji, et al.

Docket No.: 09634/100L257-US1

Title: DISPLAY EQUIPMENT, DISPLAY METHOD, AND STORAGE MEDIUM STORING A DISPLAY CONTROL

PROGRAM USING SUB-PIXELS

Sheet 1 of 17

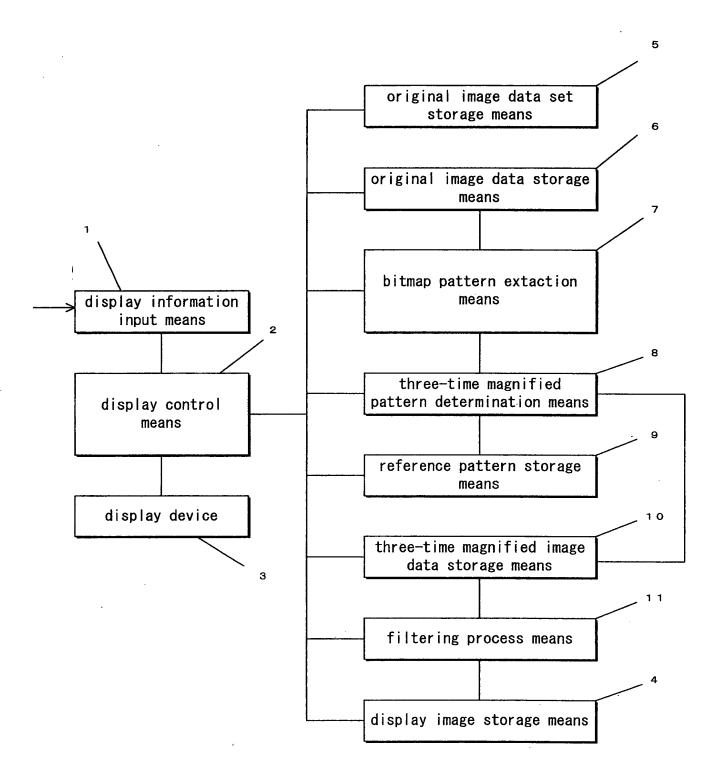


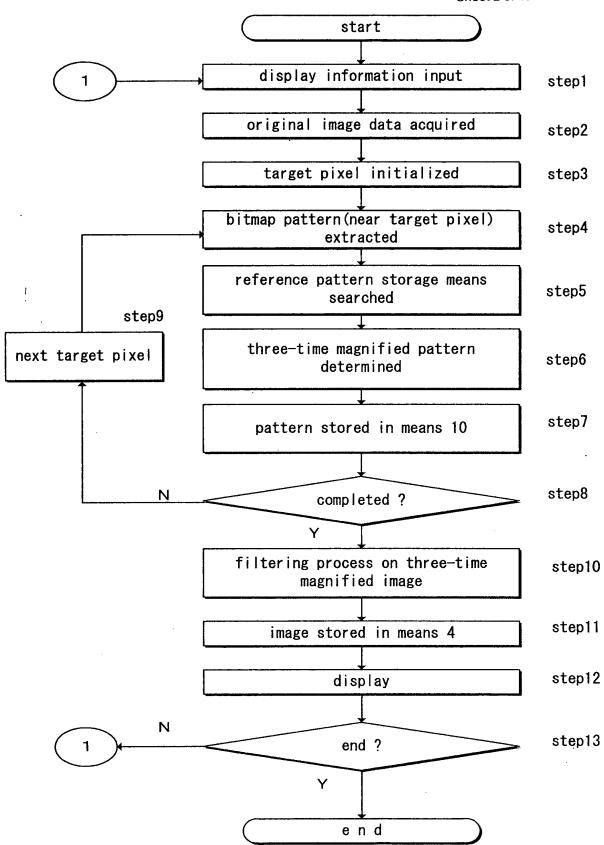
Fig. 1

Inventor: Bunpei Toji, et al.
Title: DISPLAY EQUIPMENT, DISPLAY METHOD, AND
STORAGE MEDIUM STORING A DISPLAY CONTROL
PROGRAM USING SUB-PIXELS

Fig. 2

Sheet 2 of 17

Docket No.: 09634/100L257-US1

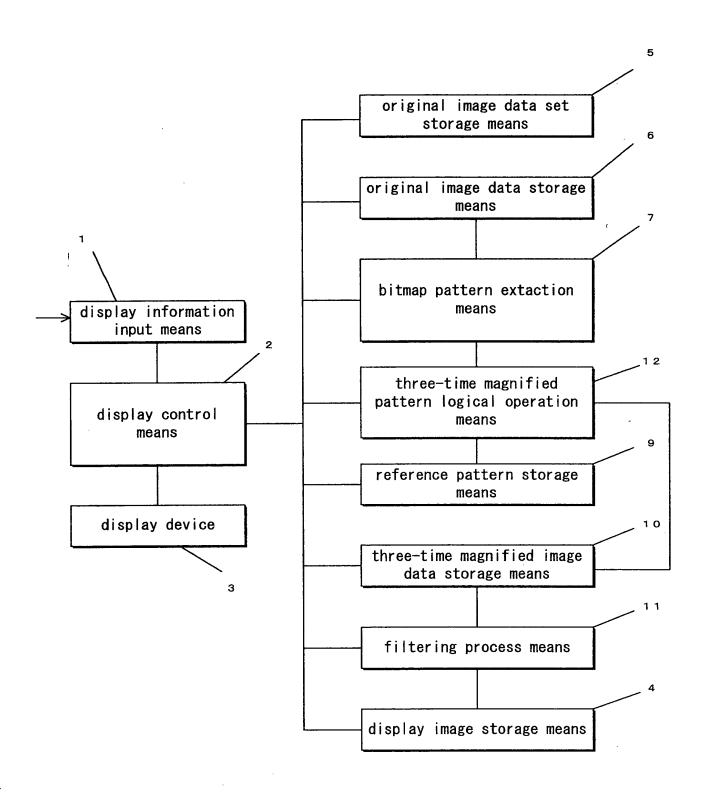


App No.: Not Yet Assigned Docket No.: 09634/100L257-US1 Inventor: Bunpei Toji, et al.

Title: DISPLAY EQUIPMENT, DISPLAY METHOD, AND STORAGE MEDIUM STORING A DISPLAY CONTROL PROGRAM USING SUB-PIXELS

Sheet 3 of 17

Fig. 3



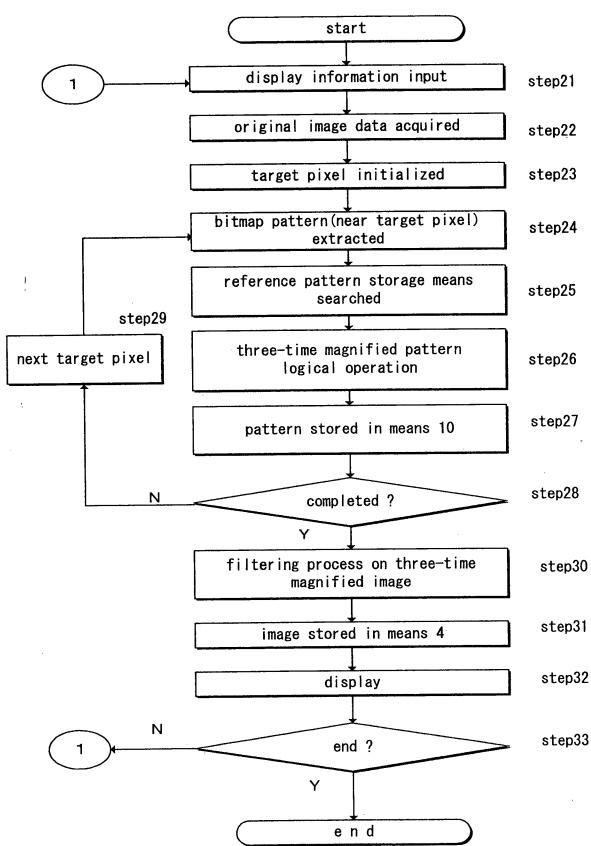
Docket No.: 09634/100L257-US1 App No.: Not Yet Assigned

Inventor: Bunpei Toji, et al.

Title: DISPLAY EQUIPMENT, DISPLAY METHOD, AND STORAGE MEDIUM STORING A DISPLAY CONTROL PROGRAM USING SUB-PIXELS

Fig. 4

Sheet 4 of 17



Docket No.: 09634/100L257-US1

Inventor: Bunpei Toji, et al. Title: DISPLAY EQUIPMENT, DISPLAY METHOD, AND STORAGE MEDIUM STORING A DISPLAY CONTROL

PROGRAM USING SUB-PIXELS

Sheet 5 of 17

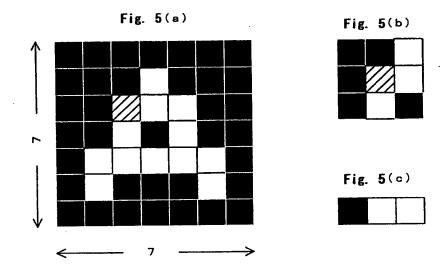
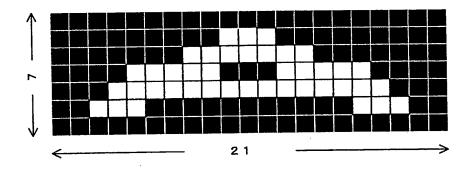


Fig. 6



Docket No.: 09634/100L257-US1

Inventor: Bunpei Toji, et al.
Title: DISPLAY EQUIPMENT, DISPLAY METHOD, AND
STORAGE MEDIUM STORING A DISPLAY CONTROL

PROGRAM USING SUB-PIXELS

Sheet 6 of 17

Fig. 7

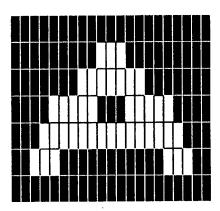
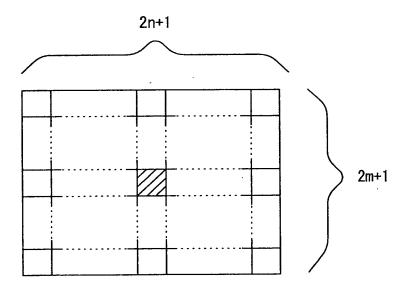


Fig. 8



Inventor: Bunpei Toji, et al.

Title: DISPLAY EQUIPMENT, DISPLAY METHOD, AND STORAGE MEDIUM STORING A DISPLAY CONTROL

PROGRAM USING SUB-PIXELS

Sheet 7 of 17

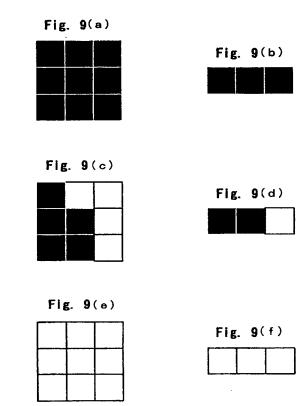


Fig. 10

00000000	000
001101001	001
111111111	111

Docket No.: 09634/100L257-US1 App No.: Not Yet Assigned

Inventor: Bunpei Toji, et al.

Title: DISPLAY EQUIPMENT, DISPLAY METHOD, AND STORAGE MEDIUM STORING A DISPLAY CONTROL

PROGRAM USING SUB-PIXELS

Sheet 8 of 17

Fig. 11(a)

(-1, -1)	(0, -1)	(1, -1)		
(-1, 0)	(0, 0)	(1.0)	*	don't care
(-1, 1)	(0, 1)	(1.1)		

Fig. 11(b)



if (x(-1,0)=1 and x(1,0)=1 and x(0,0)=1) then result := '111':

Fig. 11(c)

*	*	*
*	*	*

if (x(-1, 0)=0 and x(1, 0)=0 and x(0, 0)=0) then result := '000';

Fig. 11(d)



if (x(0,-1)=1 and x(0,1)=1 and x(0,0)=1) then result := '111';

Fig. 11(e)

٠.	· · · · · · · · · · · · · · · · · · ·		
	*		*
	*		*
	*		*

if (x(0,-1)=0 and x(0,1)=0 and x(0,0)=0) then result := '000';

Fig. 11(f)



if (x(-1,-1)=1 and x(0,1)=1 and x(0,0)=1and x(0,-1)=0 and x(1,-1)=0 and x(1,0)=0and x(1,1)=0) then result := '110';

Fig. 11(g)



if (x(-1,-1)=0 and x(0,1)=0 and x(0,0)=0and x(0,-1)=1 and x(1,-1)=1 and x(1,0)=1and x(1,1)=1) then result := '001';

Inventor: Bunpei Toji, et al.

Title: DISPLAY EQUIPMENT, DISPLAY METHOD, AND STORAGE MEDIUM STORING A DISPLAY CONTROL PROGRAM USING SUB-PIXELS

Sheet 9 of 17

Fig. 12

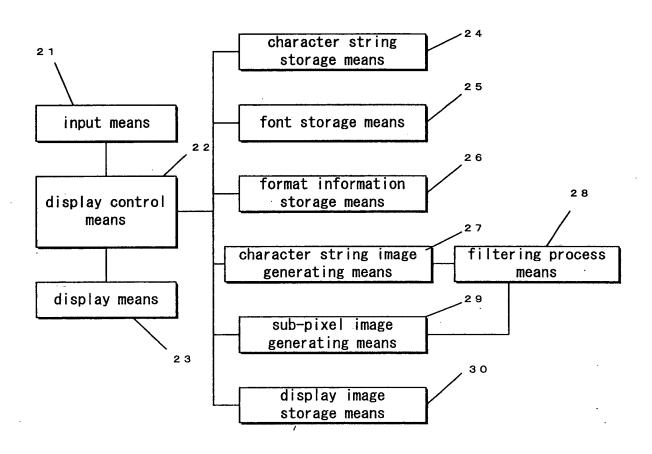
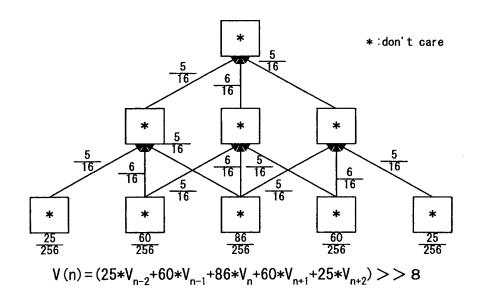


Fig. 13



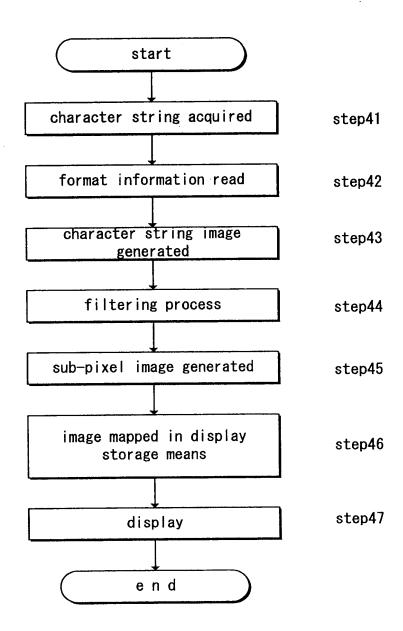
Inventor: Bunpei Toji, et al.

Title: DISPLAY EQUIPMENT, DISPLAY METHOD, AND
STORAGE MEDIUM STORING A DISPLAY CONTROL

PROGRAM USING SUB-PIXELS

Sheet 10 of 17

Fig. 14



Docket No.: 09634/100L257-US1

Inventor: Bunpei Toji, et al. Title: DISPLAY EQUIPMENT, DISPLAY METHOD, AND STORAGE MEDIUM STORING A DISPLAY CONTROL

PROGRAM USING SUB-PIXELS

Sheet 11 of 17

Fig. 15

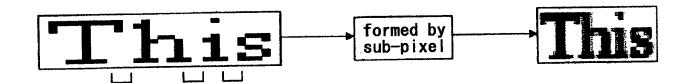


Fig. 16

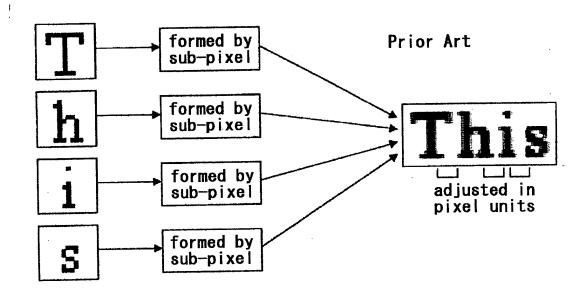


Fig. 17

## Prior Art 均等割り当て adjusted in pixel units

## (b) 均等割り当て adjusted in sub-pixel units

Inventor: Bunpei Toji, et al.

Title: DISPLAY EQUIPMENT, DISPLAY METHOD, AND
STORAGE MEDIUM STORING A DISPLAY CONTROL

Fig. 18 PROGRAM USING SUB-PIXELS Sheet 12 of 17

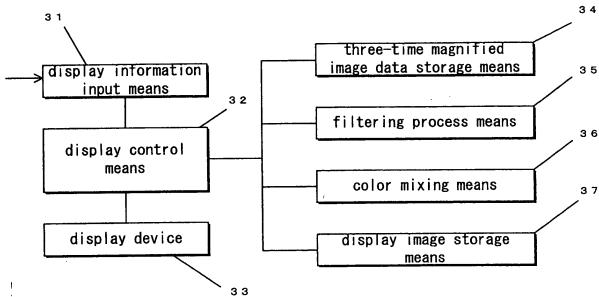
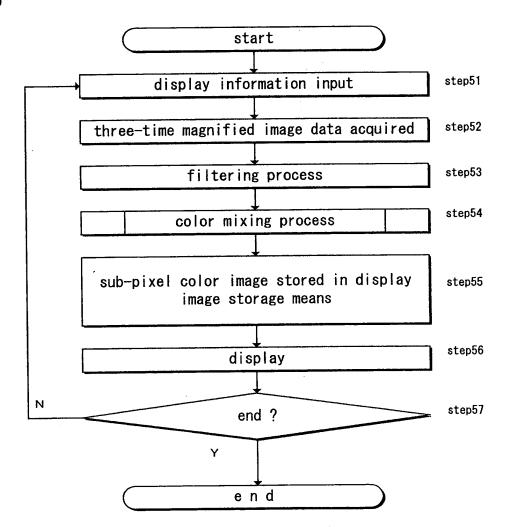


Fig. 19



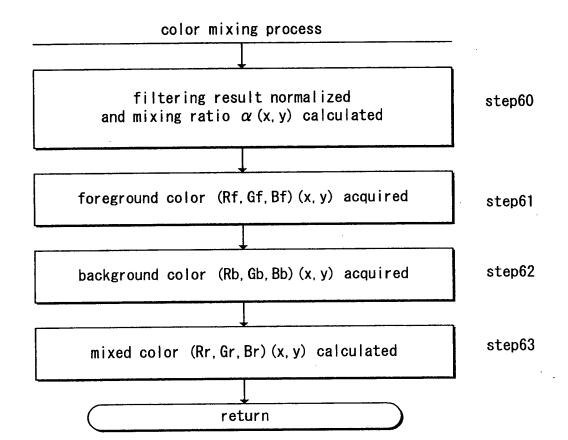
Docket No.: 09634/100L257-US1

Inventor: Bunpei Toji, et al.
Title: DISPLAY EQUIPMENT, DISPLAY METHOD, AND
STORAGE MEDIUM STORING A DISPLAY CONTROL

PROGRAM USING SUB-PIXELS

Sheet 13 of 17

Fig. 20



Docket No.: 09634/100L257-US1

Inventor: Bunpei Toji, et al.
Title: DISPLAY EQUIPMENT, DISPLAY METHOD, AND
STORAGE MEDIUM STORING A DISPLAY CONTROL

PROGRAM USING SUB-PIXELS

Sheet 14 of 17

Fig. 21



Fig. 22

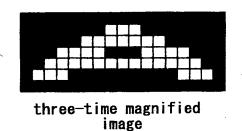
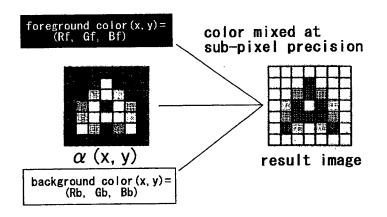


Fig. 23



Docket No.: 09634/100L257-US1

Inventor: Bunpei Toji, et al. Title: DISPLAY EQUIPMENT, DISPLAY METHOD, AND STORAGE MEDIUM STORING A DISPLAY CONTROL

PROGRAM USING SUB-PIXELS

Sheet 15 of 17

Fig. 24

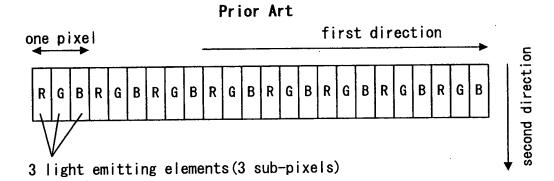


Fig. |25

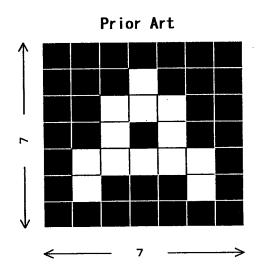
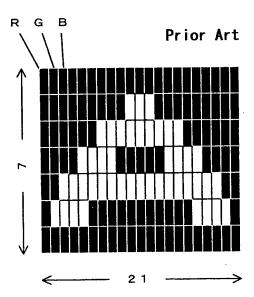


Fig. 26



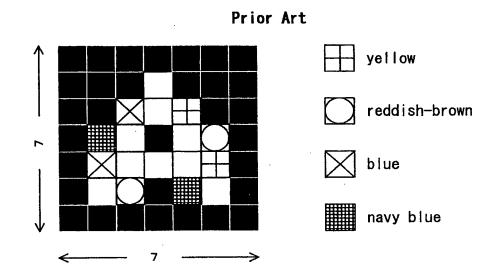
Docket No.: 09634/100L257-US1

Inventor: Bunpei Toji, et al. Title: DISPLAY EQUIPMENT, DISPLAY METHOD, AND STORAGE MEDIUM STORING A DISPLAY CONTROL

PROGRAM USING SUB-PIXELS

Sheet 16 of 17

Fig. 27



## Prior Art

Fig. 28(a)

1 2 3 2 1 9
9 9 9 9 9

target pixel

Prior Art

Fig. 28(b)

light yellow

light brown

light blue

light navy blue

App No.: Not Yet Assigned Inventor: Bunpei Toji, et al.

Docket No.: 09634/100L257-US1

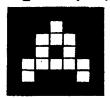
Title: DISPLAY EQUIPMENT, DISPLAY METHOD, AND STORAGE MEDIUM STORING A DISPLAY CONTROL

PROGRAM USING SUB-PIXELS

Sheet 17 of 17

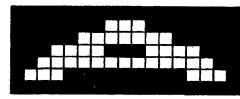
## Prior Art

Fig. 29(a)



original image

Fig. 29(b)



three-time magnified image

Fig. 29(c)



Prior Art